

# Contents

- Abe, S.-I.:** Meiosis of Primary Spermatocytes and Early Spermiogenesis in the Resultant Spermatids in *Newt, Cynops pyrrhogaster* in vitro 65
- Adams, D. S., Noonan, D., Jeffery, W. R.:** Stored Messenger Ribonucleoprotein Particles in Differentiated Sclerotia of *Physarum polycephalum* 177
- Allen, T. D., see Kinn, S. R.** 168
- Benedusi, P., see Colombo, R., et al.** 45
- Bourin, M. C., see Delescluse, C., et al.** 87
- Bringas, P., Jr., see Cummings, E. G., et al.** 1
- Carre, D., see Counis, M. F., et al.** 188
- Caseltz, J., see Osborn, M., et al.** 196
- Chaudun, E., see Counis, M. F., et al.** 188
- Colombo, R., Benedusi, P., Valle, G.:** Actin in *Xenopus* Development: Indirect Immunofluorescence Study of Actin Localization 45
- Coukell, M. B.:** Apparent Positive Cooperativity at a Surface cAMP Receptor in *Dictyostelium* 29
- Counis, M. F., David, J. C., Chaudun, E., Carre, D.:** DNA Polymerase, DNA Ligase, and Thymidine Kinase Activity in Chicken Lens, Related to DNA X-Ray Lesion Repair 188
- Cramp, W. A., see Harris, G., et al.** 92
- Cummings, E. G., Bringas, P., Jr., Grodin, M. S., Slavkin, H. C.:** Epithelial-Directed Mesenchyme Differentiation in vitro. Model of Murine Odontoblast Differentiation Mediated by Quail Epithelia 1
- Custer, R. P., see Schaefer, F. V., et al.** 260
- David, C. N., see Sternfeld, J.** 10
- David, J. C., see Counis, M. F., et al.** 188
- Delescluse, C., Bourin, M. C., Fürstenberger, G., Marks, F., Pruniéras, M.:** Differentiation Modulates the Response of Guinea Pig Epidermal Keratinocytes to the Stimulation of DNA Synthesis by TPA 87
- Denk, H., see Krepler, R., et al.** 242
- Duksin, D., see Webb, C. G.** 81
- Duprat, A. M., see Gualandris, L.** 270
- Eguchi, G., see Tsonis, P. A.** 52
- Engel, W., Klemme, B., Schmid, M.:** H-Y Antigen and Sex-Determination in Turtles 152
- Engel, W., see Epplen, J. T., et al.** 124
- Engel, W., see Üçer, U.** 162
- Engel, W., see Zenzes, M. T.** 157
- Engelbrecht, I., see Franke, W. W., et al.** 217
- Epplen, J. T., Kunz, B., Wiczorek-Engelken, G., Engel, W., Schmidtke, J.:** Cyclic AMP Phosphodiesterase in Leydig Cell Preparations of the Rat Testis 124
- Fischer-Defoy, D., Hausmann, K.:** Microtubules, Microfilaments, and Membranes in Phagocytosis: Structure and Function of the Oral Apparatus of the Ciliate *Clamastomum virens* 141
- Franke, W. W., Schmid, E., Grund, C., Müller, H., Engelbrecht, I., Moll, R., Stadler, J., Jarasch, E.-D.:** Antibodies to High Molecular Weight Polypeptides of Desmosomes: Specific Localization of a Class of Junctional Proteins in Cells and Tissues 217
- Franke, W. W., see Jackson, B. W., et al.** 203
- Franke, W. W., see Krepler, R., et al.** 242
- Franke, W. W., see Williams, M. A., et al.** 36
- Fürstenberger, G., see Delescluse, C., et al.** 87
- Gasc, J.-M., Sar, M.:** Appearance of LH-Immunoreactive Cells in the Rathke's Pouch of the Chicken Embryo 77
- Geltosky, J., see Lam, T. Y., et al.** 22
- Grodin, M. S., see Cummings, E. G., et al.** 1
- Grund, C., see Franke, W. W., et al.** 217
- Grund, C., see Jackson, B. W., et al.** 203
- Gualandris, L., Duprat, A. M.:** A Rapid Experimental Method to Study Primary Embryonic Induction 270
- Hames, B. D., see Madley, I. C., et al.** 278
- Harris, G., Cramp, W. A., Olsen, I.:** The Acute Effects of Ionizing Radiation on DNA Synthesis and the Development of Antibody-Producing Cells 92
- Hausmann, K., see Fischer-Defoy, D.** 141
- Herries, D. G., see Madley, I. C., et al.** 278
- Hoperskaya, O. A.:** Induction - The Main Principle of Melanogenesis in Early Development 104
- Illmensee, K., see Jackson, B. W., et al.** 203
- Ishikawa, M., see Kubo, M.** 131
- Jackson, B. W., Grund, C., Winter, S., Franke, W. W., Illmensee, K.:** Formation of Cytoskeletal Elements During Mouse Embryogenesis. II. Epithelial Differentiation and Intermediate-Sized Filaments in Early Postimplantation Embryos 203
- Jarasch, E.-D., see Franke, W. W., et al.** 217
- Jeffery, W. R., see Adams, D. S., et al.** 177
- Kinn, S. R., Allen, T. D.:** Conversion of Blebs to Microvilli: Cell Surface Reorganization After Trypsin 168
- Klemme, B., see Engel, W., et al.** 152
- Krepler, R., Denk, H., Weirich, E., Schmid, E., Franke, W. W.:** Keratin-Like Proteins in Normal and Neoplastic Cells of Human and Rat Mammary Gland as Revealed by Immunofluorescence Microscopy 242
- Kubo, M., Ishikawa, M.:** Organization of the Acrosome and Helical Structures in Sperm of the Aplysiid, *Aplysia kurodai* (Gastropoda, Opisthobranchia) 131
- Kunz, B., see Epplen, J. T., et al.** 124
- Lam, T. Y., Pickering, G., Geltosky, J., Siu, C. H.:** Differential Cell Cohesiveness Expressed by Prespore and Prestalk Cells of *Dictyostelium discoideum* 22
- Liquori, A. M., Monroy, A., Parisi, E., Tripiciano, A.:** A Theoretical Equation for Diauxic Growth and Its Application to the Kinetics of the Early Development of the Sea Urchin Embryo 174
- Madley, I. C., Herries, D. G., Hames, B. D.:** Common Cell-Surface Receptors for Discoidin I and Discoidin II in *Dictyostelium discoideum* 278
- Marks, F., see Delescluse, C., et al.** 87
- McMahon, D., see West, C. M.** 61
- Moll, R., see Franke, W. W., et al.** 217
- Monroy, A., see Liquori, A. M., et al.** 174
- Müller, H., see Franke, W. W., et al.** 217
- Müller, U., Urban, E.:** An Oocyte-Specific Antigen and Its Possible Role in the Organization of the Ovarian Follicle of the Rat 274
- Nardi, J. B.:** Epithelial Invagination: Adhesive Properties of Cells Can Govern Position and Directionality of Epithelial Folding 97
- Noonan, D., see Adams, D. S.** 177
- Olsen, I., see Harris, G., et al.** 92
- Osborn, M., Caseltz, J., Weber, K.:** Heterogeneity of Intermediate Filament Expression in Vascular Smooth Muscle: A Gradient in Desmin Positive Cells from the Rat Aortic Arch to the Level of the Arteria Iliaca Communis 196
- Parisi, E., see Liquori, A. M., et al.** 174
- Pickering, G., see Lam, T. Y., et al.** 22

- Price, J. E., Tarin, D.:** Lectin Agglutinability of Mammary Tumours with Differing Metastatic Colonisation Potentials 264
- Pruniéras, M.,** see Delescluse, C., et al. 87
- Ptytycz, B.:** Ontogeny of Transplantation Immunity in the Common Frog, *Rana temporaria* L. 71
- Sar, M.,** see Gasc, J.-M. 77
- Schaefer, F. V., Custer, R. P., Sorof, S.:** Enhancement of Squamous Cell Development in Cultured Skin by Cyclic Adenine Nucleotide and Prostaglandins 260
- Schmid, E.,** see Krepler, R., et al. 242
- Schmid, M.,** see Engel, W., et al. 152
- Schmid, E.,** see Franke, W. W., et al. 217
- Schmidtke, J.,** see Epplen, J. T., et al. 124
- Sieber, F.,** see Sieber-Blum, M. 117
- Sieber-Blum, M., Sieber, F.:** Tumor-Promoting Phorbol Esters Promote Melanogenesis and Prevent Expression of the Adrenergic Phenotype in Quail Neural Crest Cells 117
- Siu, C. H.,** see Lam, T. Y., et al. 22
- Slavkin, H. C.,** see Cummings, E. G., et al. 1
- Sorof, S.,** see Schaefer, F. V., et al. 260
- Sorof, S.,** see Tonelli, Q. J. 253
- Stadler, J.,** see Franke, W. W., et al. 217
- Sternfeld, J., David, C. N.:** Cell Sorting During Pattern Formation in *Dictyostelium* 10
- Tarin, D.,** see Price, J. E. 264
- Tonelli, Q. J., Sorof, S.:** Expression of a Phenotype of Normal Differentiation in Cultured Mammary Glands is Promoted by Epidermal Growth Factor and Blocked by Cyclic Adenine Nucleotide and Prostaglandins 253
- Trendelenburg, M. F.,** see Williams, M. A., et al. 36
- Tripiciano, A.,** see Liquori, A. M., et al. 174
- Tsonis, P. A., Eguchi, G.:** Carcinogens on Regeneration. Effects of *N*-Methyl-*N'*-Nitro-*N*-Nitrosoguanidine and 4-Nitroquinoline-1-Oxide on Limb Regeneration in Adults Newts 52
- Uçer, U., Engel, W.:** The Effects of Neuraminidase and Gangliosides on Ovarian LH/hCG Receptors During Rat Development 162
- Urban, E.,** see Müller, U. 274
- Valle, G.,** see Colombo, R., et al. 45
- Webb, C. G., Duksin, D.:** Involvement of Glycoproteins in the Development of Early Mouse Embryos: Effect of Tunicamycin and  $\alpha, \alpha'$  Dipyrldyl in vitro 81
- Weber, K.,** see Osborn, M., et al. 196
- Weirich, E.,** see Krepler, R., et al. 242
- West, C. M., McMahon, D.:** The Involvement of a Class of Cell Surface Glycoconjugates in Pseudoplasmodial Morphogenesis in *Dictyostelium discoideum* 61
- Wieczorek-Engelken, G.,** see Epplen, J. T., et al. 124
- Williams, M. A., Trendelenburg, M. F., Franke, W. W.:** Patterns of Transcriptional Activity of Nucleolar Genes During Progesterone-Induced Maturation of Oocytes of *Xenopus laevis* 36
- Winter, S.,** see Jackson, B. W., et al. 203
- Zenzes, M. T., Engel, W.:** The Capacity of Testicular Cells of the Postnatal Rat to Reorganize into Histotypic Structures 157

